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44015 7590 04/16/2007 OPTV/MEYERTONS RORY D. RANKIN P.O. BOX 398 AUSTIN, TX 78767-0398			EXAMINER	
			SHANG, ANNAN Q	
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SHORTENED STATUTORY PERIOD OF RESPONSE		MAIL DATE	DELIVERY MODE	
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# Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)			
,	09/765,965	DEBRA HENSGEN			
Office Action Summary	Examiner	Art Unit			
	Annan Q. Shang	2623			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be time rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	l. ely filed the mailing date of this communication. O (35 U.S.C. § 133).			
Status					
Responsive to communication(s) filed on <u>05 Fe</u> This action is <b>FINAL</b> . 2b) ☑ This     Since this application is in condition for allowant closed in accordance with the practice under E	action is non-final. ace except for formal matters, pro				
Disposition of Claims					
4) Claim(s) 1-56 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 1-56 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or Application Papers  9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access	election requirement.	Examiner.			
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date 2/1/07.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa	te			

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#### **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35
 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-22 and 25-56 are rejected under 35 U.S.C. 102(e) as being anticipated by **Jain et al (6,144,375).** 

As to claim 1, note the **Jain** reference figures 1-7, discloses compressed digital data interactive program system and further discloses a method for processing broadcasts, comprising:

Receiving a broadcast of a program (Client Multimedia System 'CMS' 400), the broadcast containing a plurality of perspectives of the program, each of the perspectives providing a view of a given scene from a different angle (figs.3-5, col.5, line 57-col.6, line 13 and line 25-51);

Presenting a first perspective, the first perspective comprising a first perspective of a portion of the program; storing at least one of the pluralities of perspectives (fig.7 and col.22, lines 6-41);

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Providing input from the a viewer (see fig.7 User Input) which indicates a desire to replay the portion of the program from a second perspective of the plurality of perspectives (col.22, lines 6-41);

Identifying (CMS-400 processor) in the first perspective a first point in time in the program, which corresponds to the beginning of the portion, responsive to the input; Automatically determining a second point in time in the second perspective where the second point in time comprises an approximation of the first point in the program and presenting the portion of the program from the second perspective to the viewer, beginning at the second point in time (col.23, line 66-col.24, line 24, line 47-col.25, line 7, line 58-col.26, line 1+ and col.27, line 33-col.28, line 27)

As to claim 2, Jain further discloses where presenting the first perspective and storing are performed simultaneously (col.23, lines 21-30, col.25, line 44-col.26, line 1+ and col.29, lines 8-31).

As to claim 3, Jain further discloses where storing the at least one of the first perspective is performed automatically (col.25, line 44-col.26, line 1+ and col.27, line 33-col.28, line 1+).

As to claims 4 and 5, Jain further discloses where presenting at least one of the plurality of perspectives includes presenting at least one of the stored perspectives and storing are performed simultaneously (col.25, line 44-col.26, line 1+ and col.27, line 33-col.28, line 1+).

As to claim 6, Jain further discloses periodically storing meta-data corresponding to each of one or more of the received plurality of perspectives of the program, the

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meta-data comprising at least time and offset information for each of corresponding one or more plurality of perspectives (col.25, line 44-col.26, line 1+ and col.27, line 33-col.28, line 1+).

As to claim 7, Jain further discloses where receiving the broadcast includes receiving a plurality of related video streams, each stream including one of the perspectives (col.25, line 44-col.26, line 1+ and col.27, line 33-col.28, line 1+).

As to claim 8, Jain further discloses where identifying the first point in time in the first perspective comprises identifying a first offset in the stored file corresponding to the first perspective (col.25, line 44-col.26, line 1+ and col.27, line 33-col.28, line 1+).

As to claims 9, Jain further discloses where presenting the first perspective includes presenting the first perspective in one window of a display and presenting at least one of the plurality of perspectives includes presenting a second perspective from the plurality of stored perspectives in a different window (fig.7-9 and col.22, line 6-col.23, line 1+).

As to claim 10, Jain further discloses where storing at least one of the plurality of perspectives includes storing the perspectives in at least one circular buffer (col.25, line 44-col.26, line 1+).

As to claim 11, Jain further discloses where determining the second point in time in the second perspective comprises locating an offset in the second perspective which is near the first offset (col.25, line 44-col.26, line 1+ and col.27, line 33-col.28, line 1+).

As to claim 12, Jain further discloses where determining the second point in time in the second perspective comprises: searching stored meta-data to identify two

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consecutive offsets corresponding to the first perspective, such that the interval represented by the two consecutive offsets includes the first offset; utilizing a stored time corresponding to each of the two consecutive offsets to determine an approximated point in time; searching stored meta-data to identify two consecutive times corresponding to the second perspective, such that the interval represented by the two consecutive times includes the approximated point in time; utilizing a stored offset corresponding to each of the two consecutive times to determine an approximated offset and locating an offset in the second perspective which is near the approximated offset (col.25, line 44-col.26, line 1+, col.27, line 33-col.28, line 1+ and col.29, line 8-44, line 64-col.30, line 42).

As to claims 13-14, Jain further discloses where the plurality of perspectives of the program comprises MPEG data streams, and where the offset in the second perspective, which is near the first offset corresponding to an MPEG I-frame and where the offset in the second perspective which is near the approximated offset corresponds to an MPEG I-frame (col.22, lines 43-67).

As to claim 15, the claimed "a method for playing a multi-perspective program comprising..." is composed of the same structural elements that were discussed in the rejection of claim 1.

Claim 16 is met as previously discussed with respect to claim 6.

Claim 17 is met as previously discussed with respect to claim 9.

Claim 18 is met as previously discussed with respect to claim 11.

Claim 19 is met as previously discussed with respect to claim 12.

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As to claim 20, the claimed "a system for recording a broadcast including a plurality of perspectives of the program comprising…" is composed of the same structural elements that were discussed in the rejection of claim 1.

Claim 21 is met as previously discussed with respect to claim 2.

As to claim 22, Jain further discloses where the recorded perspectives to the viewer without interrupting the recording of the broadcast (col.25, line 44-col.26, line 1+ and col.27, line 33-col.28, line 1+).

Claim 25 is met as previously discussed with respect to claim 6.

As to claim 26, Jain further discloses where the storage device is selected from the group consisting of: a magnetic disk, an optical disk and a flash memory (col.2, lines 26-44).

Claim 27 is met as previously discussed with respect to claim 11.

Claim 28 is met as previously discussed with respect to claim 12.

As to claim 29, Jain further discloses where the receiver comprises at least one tuner (col.6, lines 25-67 and col.10, lines 48-55).

As to claim 30, Jain further discloses where the receiver comprises a demultiplexer and a processor (col.6, lines 25-67).

As to claim 31, the claimed "a system for presenting broadcasts..." is composed of the same structural elements that were discussed in the rejection of claim 1.

Claim 32 is met as previously discussed with respect to claim 2.

Claim 33 is met as previously discussed with respect to claim 2.

Claim 34 is met as previously discussed with respect to claim 5.

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Claim 35 is met as previously discussed with respect to claim 5.

Claim 36 is met as previously discussed with respect to claim 6.

Claims 37-38 are met as previously discussed with respect to claim 9.

As to claims 39-40, Jain further discloses where the receiver is configured to receive a plurality of audio and/or video streams associated with the plurality of perspectives and where the A/V streams includes one of the perspectives (col.6, lines 25-67 and col.9, line 24+).

Claim 41 is met as previously discussed with respect to claim 11.

Claim 42 is met as previously discussed with respect to claim 12.

As to claim 43, Jain further discloses where the storage device includes at least one circular buffer 106 for storing at least one of the pluralities of perspectives (col.6, lines 25-67 and col.9, line 24+).

As to claim 44, Jain further discloses where the processor is configured to search at least one of the stored perspectives (col.27, line 33-col.28, line 1+ and col.29, line 8-44, line 64-col.30, line 42)

As to claim 45, the claimed "a computer program product for processing broadcasts, comprising..." is composed of the same structural elements that were discussed in the rejection of claim 1.

Claim 46 is met as previously discussed with respect to claim 2.

Claim 47 is met as previously discussed with respect to claim 6.

Claim 48 is met as previously discussed with respect to claim 4.

Claim 49 is met as previously discussed with respect to claim 2.

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Claim 50 is met as previously discussed with respect to claim 11.

Claim 51 is met as previously discussed with respect to claims 39-40.

Claim 52 is met as previously discussed with respect to claim 12.

Claim 53 is met as previously discussed with respect to claim 9.

Claim 54 is met as previously discussed with respect to claim 43.

As to claims 55-56, Jain further discloses where receiving the broadcast includes simultaneously receiving a plurality of related video streams, each stream includes one of perspectives, where the streams do not have a same bit rate and where the locating comprises performing interpolation (col.27, line 33-col.28, line 1+ and col.29, line 8-44, line 64-col.30, line 42)

#### Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 23-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Jain et al (6,144,375) and further in view of Abecassis (6,289,165).

As to claims 23-24, Jain further teaches a receiver, which receives video transmitted via camera over radio frequency, decodes the video stream, stores and playback as desire via a Video out port connected to a monitor or TV screen or other display, but silent to explicitly use a STB which includes a storage device.

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However of **Abecassis** teaches various multimedia receiving or player devices including a STB with storage capabilities (col.6, lines 19-48).

Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the teaching of Abecassis into the system of Jain to provide a STB connected to conventional TV sets, so that end users don't have to buy a new TV along with the computer elements.

## Response to Arguments

5. Applicant's arguments with respect to claims have been considered but are most in view of the new ground(s) of rejection as discussed above. This office action is non-final.

#### Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Jain et al (6,360,234) discloses video cataloger system with synchronized encoders.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Annan Q. Shang** whose telephone number is **571-272-7355**. The examiner can normally be reached on **700am-400pm**.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **Christopher S. Kelley** can be reached on **571-272-7331**. The fax phone number for the organization where this application or proceeding is assigned is **571-273-8300**.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the **Electronic Business Center (EBC) at 866-217-9197 (toll-free)**. If you would like assistance from a **USPTO Customer Service Representative** or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Annan Q. Shang